



Electric Inflatable Pressure Ulcer Prevention Air Mattress Operating Manual



EHOB (Shanghai) Medical Products Co., Ltd

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I. Introduction

1. Product features

EHOB static air mattress for pressure ulcer prevention prevents and treats pressure ulcer by reducing pressure and shear force on the skin of patient and improving the hot and humid environment of patient. The EHOB air mattress is characterized by providing a suitable low-pressure air mattress, which can hold up the body of the patient to make him/her suspend on the air mattress, and sink the patient in the air mattress to get the largest contact area between the body and air mattress so as to reduce unit pressure on the body; the suspension effect of the air mattress also largely reduces shear force. The electric inflator pump provides press air. It is functional in pressure setting, automatic pressure maintenance, and showing the mattress information on the LCD screen.

The electric inflator pump is only working in first time charging and pumping up when the air loss. The electric inflator pump is in a mute and power-saving operating mode without air flowing during most of the time, providing comfortable service conditions for patients.

The electric inflator pump is an AC-DC dual-purpose device with good portability. The power adapter supply power of the equipment by connecting plugging it into source power to the electric inflator pump. The adapter is specified as a part of the equipment. The battery supply power of the equipment when supply power is out.

The air mattress can be used separately from the inflator pump.

2. Product models

The series of products feature an electric inflator pump that can control air mattresses of different sizes to realize the same set pressure, so an electric inflator pump can be used with air mattresses of different sizes with good interchangeability. The models of air mattresses of different sizes are listed below.

No	Products	Model	Inflated size		Load Weight (lb)	Electric Pump
			L×W×H(in)			
1	Elec. Inflatable Air Mattress	1004ELCP	75×30×3		600	All mattress use one pump (Model: CP1100)
2	Elec. Inflatable Air Mattress	1056ELCP	76×34×3		600	
3	Elec. Inflatable Air Cushion	207GDCCP	72×21×3		600	

4	Elec. Inflatable Operation Air Mattress	1100RCP	78×22×2	600
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Air mattresses 1004ELCP and 1056ELCP are designed with different sizes for matching the size of beds.

Air cushion 207GDCCP is designed for people in wheelchairs or sedentary people.

Air mattress 1100RSP is designed for matching the size of operating table and surgery cart, used for surgical patients. This kind of small and exquisite mattress is also a good tool for women after childbirth.

II. Safety Precautions

1. Before starting to use, please read this instruction manual to get familiar with the safety requirements and procedures.
2. Any kind of the product changes and or other manufacturers of spare parts may have a potential threat to the safety and performance of the product. It is recommended to use under the guidance of a doctor.
3. The air mattress has dog bone handle holes available. It helps pulling air mattress, assist the patient to translation. However, air mattress is not a stretcher, cannot be directly used as transport patients used tool.
4. The mattress surface cannot contact with hard objects pointed, avoid surface piercing and scratches and cigarette butt scald, resulting in leakage. The surface should be covered with a monolayer of bed sheets.
5. Before using for another patient, the mattress should be disinfection, cleaning, drying.
6. If leakage alarm phenomenon, must immediately check whether leakage, inflatable air cushion connecting parts line whether there is loose or cooperation is not in place, if any, should be repaired in a timely manner to the correct state.
7. When the city power supply been cut off, the battery power is available. User should check the remaining battery power on the LCD screen if it is insufficient or need to replace the new battery. The using battery time should no more than 12 hours and always pay attention to the consumption of battery and lower battery alarm.
8. Electric inflatable air mattress is a special product for preventing and curing pressure ulcer of the patients. It is not for other uses, other occasions or used for other purposes. Un-correct using this product, it may cause the risk for the user, or may cause damage of the product.

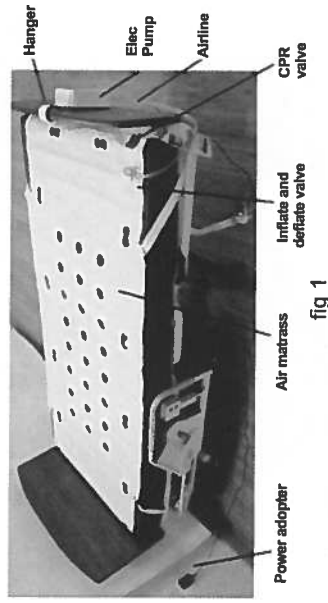
9. The use of accessories not specified by the manufacturer may result in increased emissions by, or decreased immunity of the equipment, affecting its performance.

10. Portable and mobile radio frequency (RF) communications equipment (e.g. mobile/cell phones) can affect medical electrical equipment.

11. The device can be powered by connecting the mains plug of the AC adapter to a standard socket-outlet, always place the device in such a way that is easy for the operator to up plug in emergency.

III. Structural Features and Operating Principles

An electric inflatable pressure ulcer prevention air mattress is composed of two primary components: electric inflator pump and air mattress. An electric inflator pump includes airline assembly, hook and power adapter. See the figure 1.



The electric inflator pump inflates and deflates the air mattress to maintain the pressure at the set value all the time.

The content displayed in the LCD is as shown in the figure 2. The display range of actual air mattress pressure is 0-80mmHg. The setting range of air mattress pressure is 21-32mmHg. Slow air leakage can be observed via the cumulative operating time of inflator pump every day.

"Leakage" only appears and blinks when giving a warning of air leakage. Battery level only appears when electric supply is disconnected and battery is used. See figure 3.

The inflatable pressure ulcerprevention air mattress is made of TPU or PVC material with flame retardant and antibacterial ingredients by high-frequency welding. See figure 4.

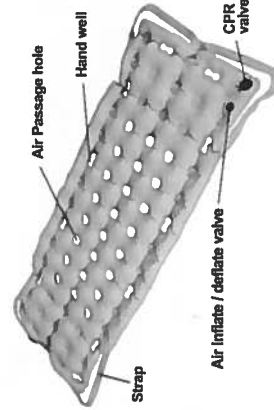


fig 4

The input AC voltage of power adapter is 110V/220V and the output DC voltage is 6V, and it's connected with the electric inflator pump via plug.

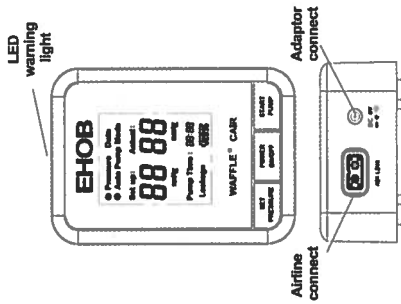


fig 2

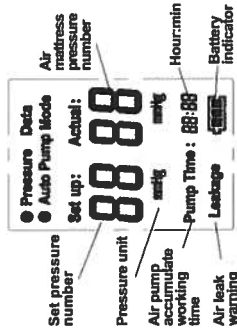


fig 3

IV. Product Installation and Operating Instructions

Installation of electric air mattress:

1. Installation of air mattress: Take the air mattress out of the package, lay the air mattress with the inflation valve at the side of footboard, and fix the bands of air mattress at the four corners of mattress to prevent the air mattress from sliding when the back board of bed rises and falls.
2. Take out the electric inflator pump, open the battery compartment cover in the rear panel of the shell, put 4 AA batteries in the battery compartment, and cover it up in figure 5.
3. Take out the plastic hook, insert it into the two square holes in the rear panel, and lift it up to fix it firmly.
4. Take out the connecting airline, insert one end into the socket of electric inflator pump, and insert the other end with cap into the inflation valve (transparent) of air mattress with the flange inside the air cock plug aligning with the diaphragm opening of air cock seat to push the diaphragm open in figure 6. Make sure that the plugs at both ends couple with sockets closely to prevent air leakage.
5. Take the power adapter, and insert one end into the power socket of electric inflator pump and the other end into an AC power wall socket. that is in the range of "AC 100-240V 50Hz-60Hz". See figure 7.
6. Hang the connected electric inflator pump at the footboard of bed.



fig 5



fig 6



fig 7


Use of electric inflatable pressure ulcerprevention air mattress

Normally, lay the air mattress and inflate it to reach 10mmHg first and then let the patient lie on it for use. Of course, it's also allowed to let the patient lie on it for use without inflation, and now it shall be operated according to Point 4 below.

1. Power on: Press the button "Power On/Off" to power on the electric inflator pump, and the LCD panel displays "Pressure Data". Now it displays in figure 8: the set pressure of air mattress is 21mmHg (default setting); the actual pressure of air mattress is 0 or another value.

2. Preparation with bed empty: Press the button "Start Pump", and the LCD panel displays "Auto Pump Mode". It takes about less than 20 min. to inflate a completely empty mattress to reach 10mmHg. When the air mattress pressure reaches 10mmHg, the system will automatically stop. Now it displays in figure 9: The set pressure of air mattress is still 21mmHg (default setting); the actual pressure of air mattress is 10mmHg; the cumulative operating time of inflator pump is 15 to 20min.

3. A patient lies on the air mattress for use: After the patient lies on the air mattress, the air mattress pressure may rise or fall due to the weight of patient within 3 min. When the deviation of air mattress pressure from the set pressure exceeds ± 3 mmHg as time goes by, the system will automatically inflate or deflate the air mattress to adjust the pressure to the set pressure within 3 min. It runs in cycle. See figure 10.

 If the patients weighing is less than 35 kg, need to press a "Start Pump" again to pump the pressure to settled pressure.

4. A patient lies on an uninflated air mattress. If the patient has been on an uninflated air mattress, press the button "Start pump", and after the air mattress pressure reaches 10mmHg and the system stops, press the button "Start pump" again; then the inflator pump will inflate the air mattress to reach the set pressure, e.g. 21mmHg.

5. Check the pressure: The first setting of pressure value should be carried out under the doctor's guidance if it is possible. Keep one hand flat and insert it between the air mattress and mattress below the hip of patient



fig 8



fig 9

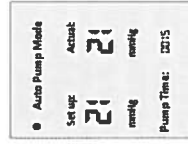


fig 10

to check the clearance between the hip and the mattress; see figure 11,

The pressure adjustable range is from 21mmHg to 32mmHg. the clearance should be 1-1.5cm. Otherwise, press the button "Set up pressure" to increase the pressure by a value greater than ± 3 mmHg. The system will automatically inflate or deflate the air mattress to reach the new setvalue within 2 min. Check it again with hand to confirm that the hip is 1-1.5cm above the mattress. Adjust the pressure until the clearance is 1-1.5cm. The pressure adjustable range is from 21mmHg to 32mmHg.



fig 11

6. Time and method for adjusting pressure: A new pressure can be set in any case when the pump is not running. When the difference between the new set pressure and the original pressure is greater than 3mmHg, the system will inflate or deflate within 1 min. to reach the new set pressure. If the difference is less than 3mmHg, the new set pressure will be reached after the system inflates or deflates when the pressure deviation from the original set pressure is greater than ± 3 mmHg, because the system is set to act only when the pressure deviation is ± 3 mmHg.

Tips: if you need to adjust the pressure from 21mmHg to 22mmHg, you can adjust it to 27mmHg first, and after the system reaches this pressure 2min. later, adjust it to 22mmHg. The new set pressure can be reached only after a process of inflation or deflation

7. Standby and power-off

7.1 Manual power-off: In any state, press the Power On/Off button for 2s, and the system powers off.

7.2 Automatic power-off: At the standby state (the "Power On/Off" button is pressed and the "Start pump" button is not pressed), the system will power off and enter into the power saving mode after 10 minutes of no operation and the LCD has no display.

8. CPR rapid release valve. When carrying out cardio-pulmonary resuscitation, artificial respiration or other operations, pull the red valve cap open quickly to discharge the air in the air mattress rapidly. see figure 12.



fig 12

9. Move patient with air mattress: Unplug the air cock at the end of air mattress and cover the inflation valve deck tightly; now the air mattress is separated from the electric air mattress, see figure 13.



fig 13

10. The nurse can use the pull the air mattress hand well to lift the patient one side to turn the body (figure 14), or to move the patient onto an operating table (figure 15) or more, can hold the hand well to lift the patient up to make him/her sit up or go out of bed (figure 16).



fig 14



fig 15



fig 16

11. Portable use of air mattress and electric inflator pump. The system can be powered by battery when it's used for a short time, see (figure 17). However, it's better to inflate the air mattress with electric supply and then remove the electric supply for portable use. In this case, full battery can support the air mattress to work for 12h without air leakage.

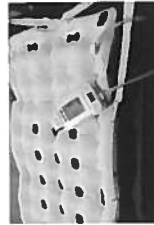


fig 17

12. A manual inflator pump is optional for air mattress. Connect the manual inflator pump with the inflation valve of air mattress, and inflate the air mattress for 33 strokes, with one push-and-pull as a stroke, see figure 18. Then check the pressure adaptability: Keep one hand flat and insert it between the air mattress and mattress to check the clearance between the hip of patient and mattress; the clearance should be 1-1.5cm. Otherwise, tap the diaphragm in the inflation valve to deflate or inflate a little to make the hip of patient 1-1.5cm above the mattress.



fig 18

V. Technical Parameters of Electric Inflator Pump

The electric pump of air mattress has specs below:

Name	No.	Items	Performance parameters
The Air Mattress Assembly	1	Product name	Electric inflatable pressure ulcer prevention mattress
	2	Model	1056ELCP;1004ELCP;1100RCP;207GDCCP
	3	Operation environment	
Electric Pump	4	Temperature	41—104 F
	5	Humidity	10%—90%
	6	Atmospheric environment	70—110 Kpa
	7	Pump size	7.32 X 4.96 x 2.32 in
	8	LCD size	4 inch
	9	Pump Weight (g)	950 (g) / include adaptor and battery
	10	Power adapter	Input: 100-240Vac, 50Hz-60Hz, 0.6A Output: 6V 1.0A
	11	Adapter wire length	118 (in)
	12	Battery	4*AA battery
	13	Air line length	31.5 - 47 (in)
Air mattress	14	Hook inner diameter	φ1.57 (in)
	15	Time of the first inflation	≤ 20 (min)
	16	Pressure adjustable range	21—32 (mmHg)
	17	Pressure display range	0-60mmHg
	18	Pump out	≥ 2.5 L / min
	19	Compression strength of inflator pump	200 (mmHg)
	20	High Pressure release	≥ 60 (mmHg)
	21	Pressure measuring accuracy	3 (mmHg)
	22	Warning function	Buzzer, LED lamp and symbol in screen
	23	Noise at inflation	≤ 45 db (A)
	24	CPR Deflate	≤ 10 (S)
	25	Moisture control	Air hole in mattress
	26	Mattress material	TPU or PVC

VI. Electromagnetic Compatibility manufacturer Declaration

Table 1

declaration - electromagnetic emission	
Emissions test	Compliance
The equipment (Electric Inflatable Pressure UlcerPrevention Air Mattress. Type 1004ELCP, or 1056ELCP, or 207GDCCP, or 1100RCP) is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment should assure that it is used in such an environment.	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1 The equipment uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B The equipment is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Comply


Table 2

declaration - electromagnetic immunity			
The equipment (Electric Inflatable Pressure UlcerPrevention Air Mattress. Type 1004ELCP, or 1056ELCP, or 207GDCCP, or 1100RCP) is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to lines ± 1 kV line(s) to earth	± 1 kV line(s) to lines	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 s	<5% U_T (>95% dip in) for 0.5 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of the equipment requires continued operation during power mains interruptions, it is recommended that the equipment be powered from an uninterruptible power supply or a battery.

Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteris- tic of a typical location in a typical commercial or hospital environment.
NOTE U_T is the a.c. mains voltage prior to application of the test level.			

Table 3

declaration - electromagnetic immunity			
The equipment (Electric Inflatable Pressure UlcerPrevention Air Mattress, Type 1004ELCP, or 1056ELCP, or 207GDCCP, or 1100RCP) is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3Vrms 150 KHz to 80 MHz	3 V	Portable and mobile RF communications equipment should be used no closer to any part of 8CH Foot Ankle Coil, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = \left[\frac{3.5}{V_1} \sqrt{P} \right]$
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	$d = \left[\frac{3.5}{E_1} \sqrt{P} \right]$ 80 MHz to 800 MHz $d = \left[\frac{7}{E_1} \sqrt{P} \right]$ 80 MHz to 2.5 GHz

where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b Interference may occur in the vicinity of equipment marked with the following symbol: 			
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.			

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
a. Field strengths from fixed RF transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which 8CH Foot Ankle Coil is used exceeds the applicable RF compliance level above, the equipment should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the equipment.
b. Over the frequency range 150 KHz to 80 MHz, field strengths should be less than 3 V/m.

VII. Product Symbol Explanations



Refer to this document (Instructions for Use)



Type BF applied part



Class II type " equipment " II type " equipment ".

IP21

Protection of ingress of solid objects over 12.5mm in diameter and water droplets falling vertically



WITH RESPECT TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES60601-1 (2005, 3rded.)

E473399

VIII. Product Maintenance

- 1 Cover the air mattress with bed sheet when using it.
- 2 Please clean the air mattress with water when it gets dirty. Clean it with warm water and alkaline soap. Do not use chemicals that may cause change of properties (alcohol or petroleum distillates).
- 3 Do not use the product or store the product in a packing box with the product stained with water. Please be sure to wipe it dry with dry cloth.
- 4 The mattress shall be stored properly when it's not used; please open the rapid release valve first, and after it's fully deflated, fold it neatly, roll it up, and put it into the packing box.
- 5 Please do not store the air mattress at a place with high temperature and humidity, a place with direct sunlight, a place near to heater, a place with much dust, a place where chemicals are stored, or a place where corrosive gas may be produced.
- 6 When the electric inflator pump is not used for a long time, batteries shall be taken out.

IX. Trouble Shooting

Problems	Possible causes	Solutions
The LED has no display when starting up	1.Power socket damaged; 2.Adapter damaged; 3.Battery run out; 4.Display damaged or internal wire harness fallen off.	1.Inspect and replace power socket 2.Inspect and replace adapter 3.Replace battery 4.Return the product to the manufacturer for repair
At the first time of inflation,the LED red light shines,LED screen in pressure of air mattress cannot reach 10 mmHg after 25 minutes	Air leakage. Then,the buzzer alarm, "Leakage leak" flicker, electric pump to stop inflation.After 10 minutes,the buzzer stops,LED and "Leakage" red light still shines.	1.Check the air mattress and the connection with the air mattress for air leakage. Eliminate air leakage by reconnection, repair or replacement. 2.Check the connection with Electric pump for air leakage; eliminate air leakage by reconnection or replacement
Warning is given in normal use	Air leakage. Then,the buzzer alarm, LED red light shines,LCD screen in "Leakage leak" flicker, electric pump is pumping.After 15 minutes, the buzzer stops, LED and "Leakage" red light still shines.	1.Check the air mattress and the connection with the air mattress for air leakage. Eliminate air leakage by reconnection, repair or replacement. 2.Check the connection with inflator pump for air leakage; eliminate air leakage by reconnection or replacement
The electric pump starts up and stops frequently	Air leakage	1.Check the air mattress and the connection with the air mattress for air leakage. Eliminate air leakage by reconnection, repair or replacement. 2.Check the connection with inflator pump for air leakage; eliminate air leakage by reconnection or replacement
The pressure is too higher	When the pressure is over 60 mmHg, the high pressure valve is open, the buzzer alarm LED red light shines and the pump is stopped.	Turn off the power switch and stop pumping. Restart the pump to see the situation. If it is still there, send the pump to manufacturer.
The pump is not working when using the battery only	When the battery is lower,LCD screen "battery energy frame" flicker and red light still shines.	Changing the battery
The LCD displays that the pressure of air mattress is less than 15mmHg	1. Air leakage; 2. When the system is running, the air mattress is deflated manually or operated abnormally. 3. The patient leaves the bed.	1. Inspect and repair air leakage of air mattress and inflator pump. 2. Shut down the system and restart it. 3.It needs no repair.
The system has no action when operating key is pressed	The system is halted.	Shut down the system and restart it.
Air mattress is punctured or leaks	Punctured by needle or torn due to excessive inflation	Repair small holes with parts in the service kit.
The electric motor cannot be started	Internal causes of system	Send the product to the manufacturer for repair.
Blank screen	Internal causes of system	Send the product to the manufacturer for repair.



Warning

1. When you cannot eliminate the fault, please contact local distributors or directly to contact with manufacturer. Performed by professional repairman.
2. Do not open the pump for inspection and repairing.
3. The repair adhesive is inflammable; avoid long inhalation of air containing adhesive; be sure to avoid contact with eyes; keep it out of the reach of children; try to avoid contact with the skin. If the skin contacts with the adhesive accidentally, please rinse with fresh water; if the adhesive comes into contact with eyes, please rinse with fresh water for 10 minutes immediately and seek medical care right away.
4. If power adaptor is fail, it should be replaced at some type purchase by manufacturer.
5. No modification of this equipment is allowed. And Do not modify this equipment without authorization of the manufacture.

X. Packing List

Product model: for each model	Unit & Qty.
Items in the box	
Inflatable pressure ulcer prevention mattress (depending on the model)	1 (PC)
Electric inflator pump (CP1001)	1 (PC)
Power adaptor (CP1010)	1 (PC)
Hanger (CP1020)	1 (PC)
Airline (CP1030)	1 (PC)
AA battery	4 PCS
Operating manual and certificate of quality	1 for each unit

Note: M.A.D pump is available based on customer's requirement.

XI. Storage and Transportation

1. Do not store the product at a place with high temperature, humidity or direct sunlight for extended service life.
2. Transportation conditions:
 Temperature: 5—130°F
 Relative humidity: 10%—90%
 Atmospheric pressure: 70.0KPa—106.0KPa
3. Storage conditions:
 Temperature: 41—113°F
 Relative humidity: 10%—90%
 Atmospheric pressure: 70.0KPa—106.0KPa

EHOB Product Warranty

1. Air mattress: The air mattress made by TPU material is guaranteed for one year from the date of sale which is indicated on the purchase invoice and the sale date stamp at the product., and it made by PVC material is guaranteed for three months. During the use of the product, damages caused by cutting or puncturing due to improper operation and storage or excessive inflation by manual inflator pump and so on are beyond the scope of warranty.
2. Electric inflator pump: The inflator pump is guaranteed for one year from the date of sale which is indicated on the purchase invoice and the sale date stamp at the product. Damages caused by the following reasons attributable to the user are beyond the scope of free warranty:
 - a) Damages caused by unauthorized dismounting and modification of the product;
 - b) Failure to operate properly according to the requirements of the operating manual;
 - c) Improper repair by repair shops not authorized by EHOB
3. Repair service out of the scope of warranty will be charged by rule.
4. Please call the customer service hotline for consulting when requesting warranty service.

XII. Waste Treatment

1. The mattress of the product contains PVC and TPU plastic material composition. non-degradable, Buried is not degradation. Incineration may produce toxic chlorine gas, pollution of the environment. Waster, please contact the local waste, please contact the local waste processing mechanism, processing or family garbage processed together.
2. Either the power adaptor or electric. Inflatable pump contains electronic circuit board. So it is invalid to become waster, please contact the local waste processing mechanism and disposed.

EHOB®



The Clinical Leader In Medical Devices For Patient Care

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